

Washington State EQ Scenario Catalog

E. Washington Hazards Workshop
October 25, 2011

John D. Schelling

j.schelling@emd.wa.gov

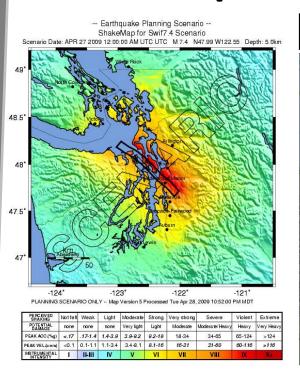


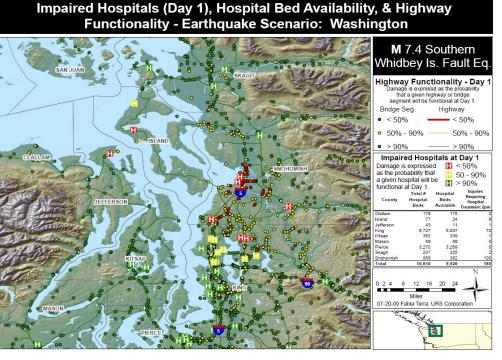
Why a Scenario Catalog???

Potential Uses...

- Mitigation Planning Consistent, authoritative, and up-todate information
- Response Planning Credible information to help develop plans
- Exercises & Training Credible information to test/exercise plans that have been developed and consider modifications based on a variety of scenarios
- Earthquake Response A virtual "playbook" of possible answers to the question "What just happened?"

Earthquake Scenario Catalog





Suite of Materials Including:

- USGS ShakeMap
- HAZUS (Loss Estimation) Report
 - Statewide & 7 most impacted counties
- Community Vulnerability Report
- Variety of Quick Reference Maps



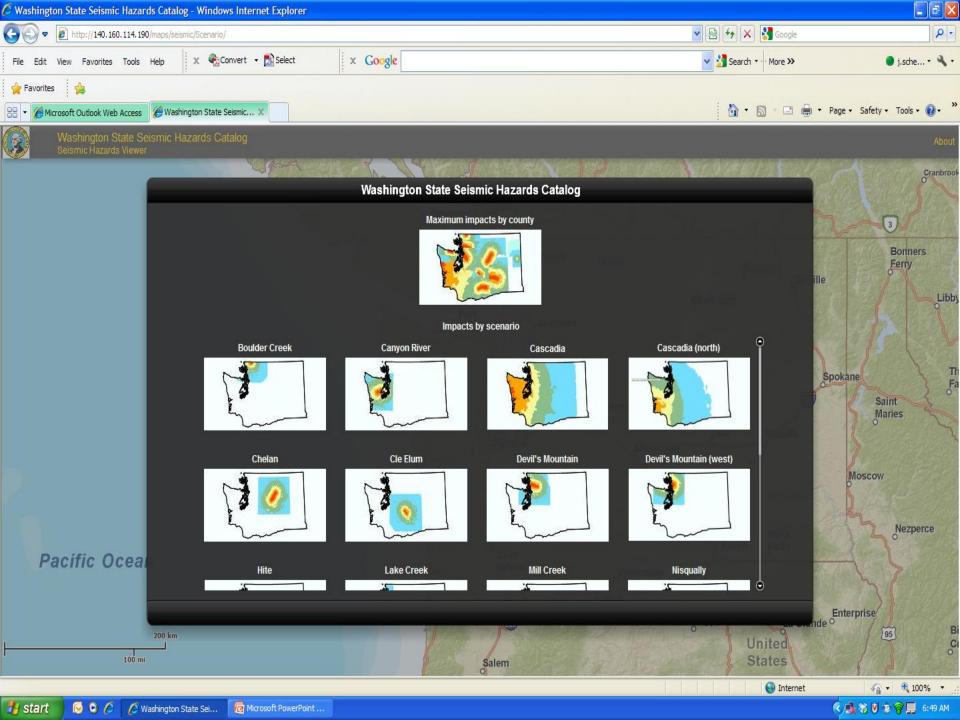
The 20 scenario earthquakes and their moment magnitudes selected for this study include:

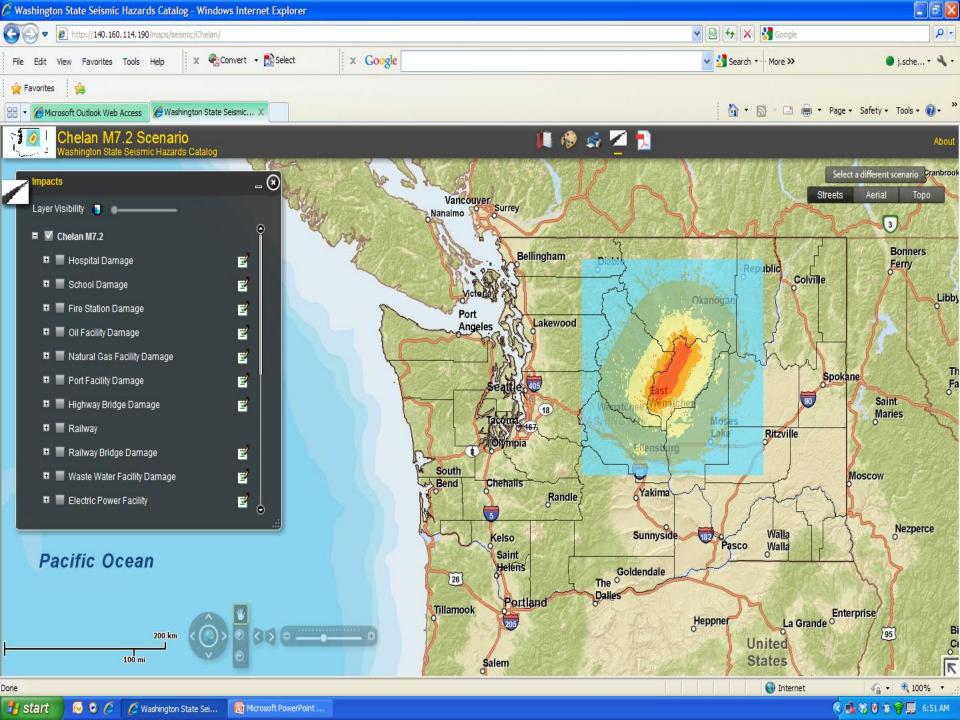
- Boulder Creek fault M 6.8;
- Canyon River-Price Lake fault M 7.4;
- Cascadia subduction zone megathrust M 9.0;
- Cascadia subduction zone megathrust (North section) M 8.3;
- Chelan fault M 7.2;
- Cle Elum-Wallula deformed zone M 6.8;
- Devils Mountain fault M 7.1;
- Devils Mountain fault (western section) M 7.4;
- Hite fault **M** 6.8;
- Little River fault (Lake Creek) M 6.8;
- Toppenish Ridge fault (Mill Creek) M 7.1;
- Mount Saint Helens deformed zone M 7.0;
- Nisqually intraslab zone M 7.2;
- Saddle Mountain fault M 7.35;
- Sea-Tac intraslab zone M 7.2;
- Seattle M7.2;
- Spokane blind fault M 5.5;
- Southern Whidbey Island fault (SWIF) zone M 7.4;
- Olympia fault lineament M 5.7; and
- Tacoma fault **M** 7.1.

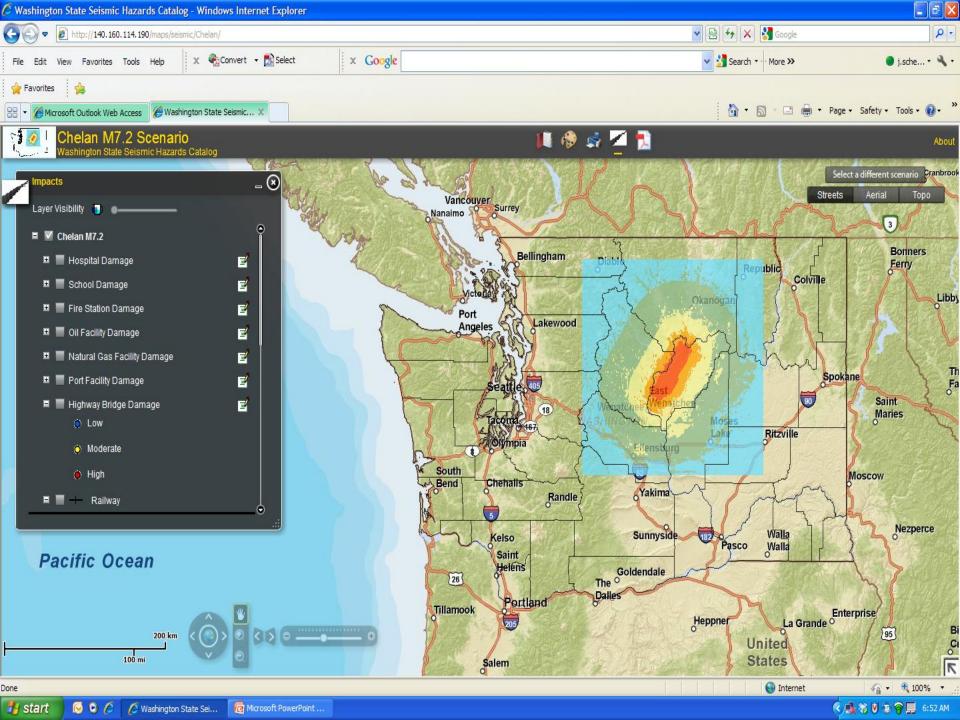
Online Viewer/Portal

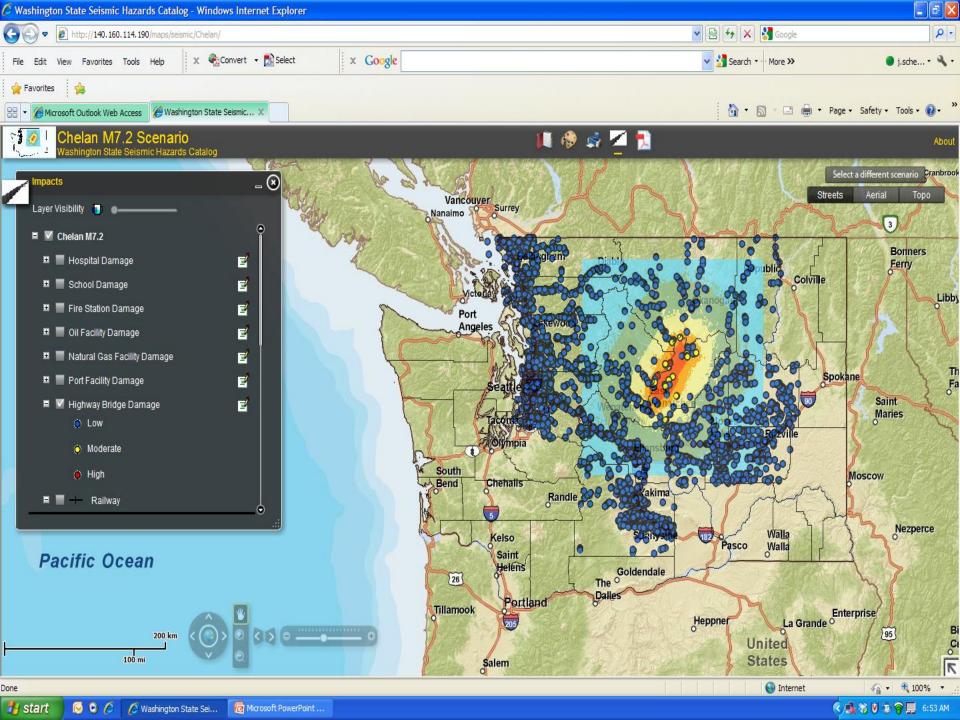
• Still in development...

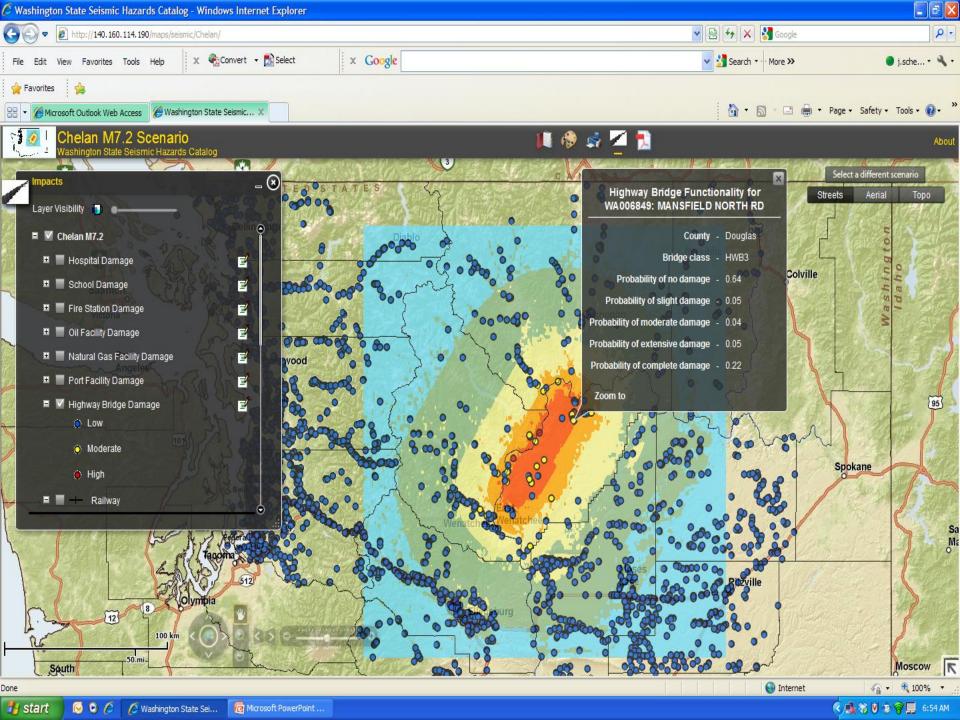
http://140.160.114.190/maps/seismic/Scenario/

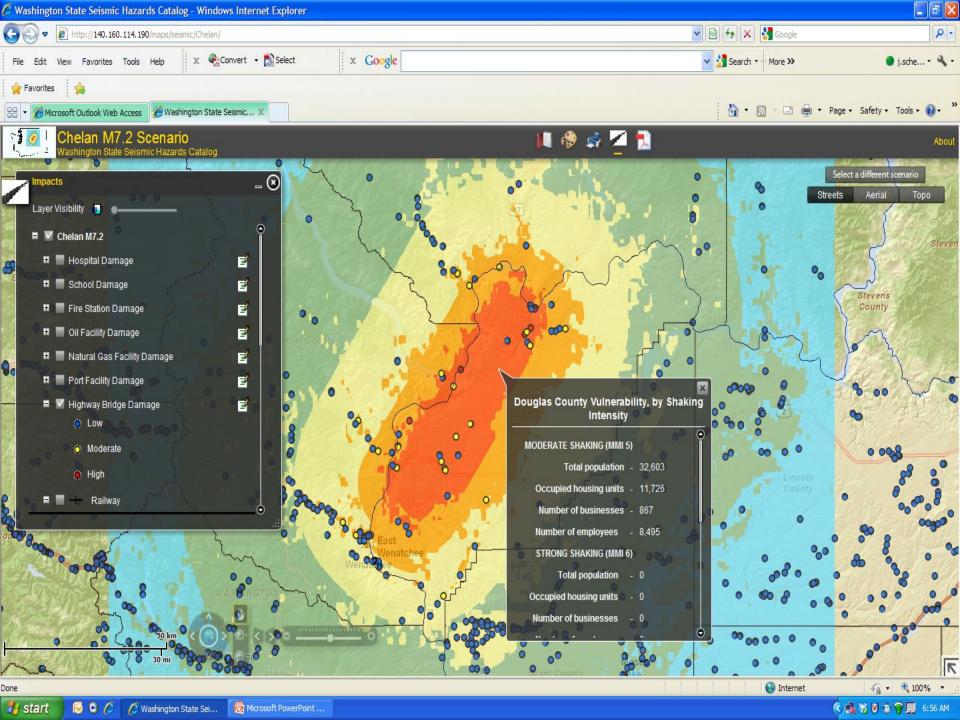


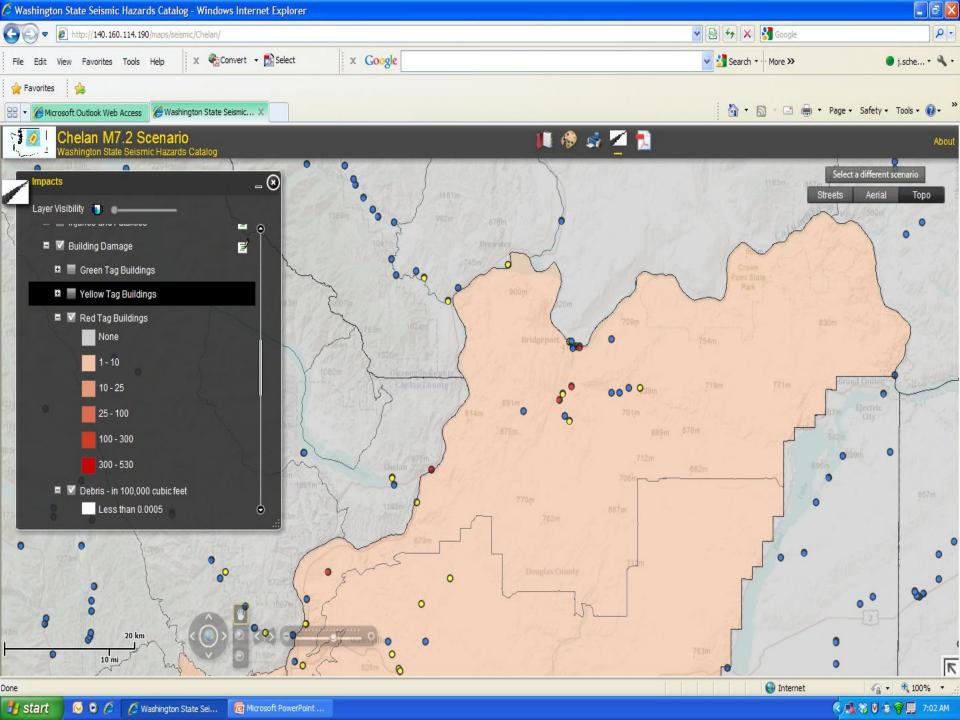












What's Next?

"If you build it they will come..."

- Resolve hosting/security issues
- Virtual briefings
- Addition of volcano and tsunami data
- Possible inclusion of flood data